1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) An evaporative burner, comprising:

a combustion chamber,

an evaporative medium (34) for feeding fuel vapor into the combustion chamber (52),

a first heating device (70) with a heating region, including at least one ignition heating element (70) for ignition of fuel vapor present in the combustion chamber (52), the first heating device projecting with at least its heating region into the combustion chamber (52),

a second heating device (72), including at least one evaporating heating element (72) associated with the evaporative medium (34) for affecting its evaporation characteristic,

said at least one evaporating heating element (72) comprising an electrically operated heating element having an electrical resistance that rises with increasing temperature,

and a control device by which heating power of at least the second heating device (72) is adjusted, and a monitoring module that monitors the heating power or the required heating power of the second heating device (72) and senses the presence of evaporation of fuel, depending on the result of monitoring.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) An evaporative burner, comprising:

a combustion chamber,

an evaporative medium (34) for feeding fuel vapor into the combustion chamber (52),

a first heating device (70) with a heating region, including at least one ignition heating element (70) for ignition of fuel vapor present in the combustion chamber (52), the first heating device projecting with at least its heating region into the combustion chamber (52),

a second heating device (72), including at least one evaporating heating element (72) associated with the evaporative medium (34) for affecting its evaporation characteristic, and

a cleaning device (100) for removal of deposits that are deposited in a region of the combustion chamber (52) during combustion operation, wherein the cleaning arrangement comprises a heating arrangement (72) that produces a temperature in the region of, or above, a burning-off temperature of the deposits,

the cleaning arrangement being operable for removing deposits in a condition of the evaporative burner in which following an operating phase thereof, the evaporative burner has been brought into a non-operating state.

14. (Cancelled)